



## VC-Dot 4

VC-Dot 4 is a lightweight string of individually controllable, bright Dots useful in creating customized LED video solutions with maximum artistic flexibility and a minimum of effort. Fully customizable and controllable via the award-winning P3 System Controller™ family and/or DMX512, it is a perfect solution for integrating LED video technology into façades, stage designs, ceilings or any other structure, indoors or out.

Mapping video onto VC-Dots goes quickly and intuitively via the P3 System Controller. No need for complex setups and time-consuming addressing. VC-Dot 4 contains four LEDs and is available in an RGB color mixing version or cool, medium, or warm white single-color versions.

Creative LED Video element for building and stage integration

Customizable pixel-pitch

Bright and fully calibrated for optimal consistency

### FEATURES

- Can assume any form for creative freedom
- Individually controllable Dots
- Bright at 7.5 cd per Dot (raw mode)
- Maximum 64 Dots per string
- Each Dot features calibrated brightness and colors
- Various Dot spacings available
- Customizable string length
- P3 or DMX controllable
- Intuitive mapping and addressing via P3 System Controller family
- Efficient and long-lasting
- IP67 rated for permanent outdoor or indoor use
- Perfect for façade or stage integration
- Supported by integrated power and data processor (P3 PowerPort 1500™) and simple cabling system

### TECHNICAL SPECIFICATIONS

#### Physical

Pixel dimensions: 36 x 30 x 13 mm (1.5 x 1.2 x 0.6 in.)

Pixel dimensions with dome: 36 mm x 30 mm x 27 mm (1.5 x 1.2 x 1.1 in.)

Weight: 1.8 kg (4.0 lbs.) for 64 Dots, 200 mm (7.9 in.) spacing, with 2 m (6.6 ft.) lead-in cable and connector

Maximum number of pixels per string: 64

Standard pixel spacing (pitch): 200 mm (7.9 in.)

Minimum pixel spacing (pitch): 60 mm (2.4 in.)

Maximum pixel spacing (pitch): 2000 mm (78.8 in.)

Standard lead-in cable length: 2000 mm (78.8 in.)

Maximum lead-in cable length: 5000 mm (196.9 in.)

*One pixel = one Dot:*

#### Control and Programming

Control options: Martin™ P3 System controller and/or DMX

DMX channels: 3 per RGB Dot, string or group, 1 per WW, MW or CW Dot, string or group

Control modes: Calibrated and raw  
Setting and addressing: P3 System Controller or RDM-compliant controller  
Control resolution: 16-bit (P3) or 8-bit (DMX) control of each color  
Color and intensity calibration: Dot-level  
DMX compliance: USITT DMX512-A  
RDM compliance: ANSI/ESTA E1.20

#### Optics

Minimum LED lifetime: 50 000 hours (to >70% luminous output)\*

*\*Figure obtained under manufacturer's test conditions:*

#### Photometric Data

Light source: Four RGB, WW, MW or CW LEDs

Color temperature, WW: 3500 K

Color temperature, MW: 6000 K

Color temperature, CW: 11 000 K

Luminous intensity, RGB, calibrated mode: 6 cd

Luminous intensity, RGB, raw mode: 7.5 cd

Total output, RGB, calibrated mode: 18.8 lm

Red output, RGB, calibrated mode: 5.2 lm

Green output, RGB, calibrated mode: 12.3 lm

Blue output, RGB, calibrated mode: 1.4 lm

Luminous intensity, WW, calibrated mode: 12 cd

Luminous intensity, WW, raw mode: 15 cd

Total output, WW, calibrated mode: 37.7 lm

Luminous intensity, MW, calibrated mode: 12 cd

Luminous intensity, MW, raw mode: 15 cd

Total output, MW, calibrated mode: 37.7 lm

Luminous intensity, CW, calibrated mode: 12 cd

Luminous intensity, CW, raw mode: 15 cd

Total output, CW, calibrated mode: 37.7 lm

Viewing angle: 120° x 120°

Viewing angle with dome: 180° x 180°

*Preliminary data, figures are approximate:*

#### Construction

Dot: Clear polycarbonate, clear silicone filled

Diffuser dome: White translucent polycarbonate

Mounting clip: White polycarbonate

Interconnecting cable: 6 x 20 AWG, black

Minimum cable bend radius: 26 mm (1.1 in.)

Protection rating: IP67

RoHS compliant

#### Installation

Orientation: Any

#### Connections

Power & data input to VC-Dot string from VC-Feeder™: Custom 8-pin connector, IP67-rated

#### Electrical

Operating voltage: 15 VDC

Power and data converter: Martin VC-Feeder™

Peak power consumption (at full intensity, full white): 1.50 W per Dot

Typical power consumption (with typical video content): 0.50 W per Dot

*Figures for typical video content are indicative only and will vary:*

#### Thermal

Cooling: Convection

Maximum ambient temperature (Ta max.): 55° C

Minimum ambient temperature (Ta min.): -20° C

Peak heat dissipation (calculated, at full intensity, full white): 6.5 BTU/hr.

Typical heat dissipation (calculated, with typical video content): 2.5 BTU/hr.

*Figures for typical video content are indicative only and will vary:*

#### Approvals

EU safety: EN 60950-1

EU EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3

US safety: ANSI/UL 60950-1

US EMC: FCC Part 15 Class A

Canadian safety: CSA C22.2 No. 60950-1

Canadian EMC: ICES-003 Class A

Australia/NZ: C-TICK N4241

#### Accessories

VC-Dots ribbon cable extension, 10 m (32.8 ft.): P/N 90357230

Quick splice connectors for VC-Dots ribbon cable extension, set of 15: P/N 90357240

VC-Dots ribbon cable termination cap, set of 10: P/N 91611400

VC-Dot 4™ Diffuser Domes, set of 10: P/N 90357190

VC-Dot 4™ Diffuser Domes, Smoked, set of 10: P/N 91610109

VC-Dot 4™ Mounting Clips, set of 10: P/N 90357220

VC-Dot 4™ Truss Clips, set of 10: P/N 91611372

VC-Dot 4™ Aluminum Mounting Profile, Black, 2 m (6.6 ft.): P/N 91611378

VC-Dot 4™ Mounting Profile Cover, Black, 2 m (6.6 ft.): P/N 91611379

VC-Dot 4™ Mounting Profile End Caps, Black, set of 10: P/N 91611380

VC-Dot 4™ Mounting Profile Cable Entry End Caps, Black, set of 10: P/N 91611381

VC-Dot 4™ Aluminum Mounting Profile, Grey, 2 m (6.6 ft.): P/N 91611390

VC-Dot 4™ Mounting Profile Cover, Grey, 2 m (6.6 ft.): P/N 91611391

VC-Dot 4™ Mounting Profile End Caps, Grey, set of 10: P/N 91611392

VC-Dot 4™ Mounting Profile Cable Entry End Caps, Grey, set of 10: P/N 91611393

VC-Dot 4™ Plastic Mounting Profile, Black, 1.2 m (4.0 ft.): P/N 91611450

VC-Dot 4™ Plastic Mounting Profile Cover, Black, 1.2 m (4.0 ft.): P/N 91611470

VC-Dot 4™ Plastic Mounting Profile, White, 1.2 m (4.0 ft.): P/N 91611460

VC-Dot 4™ Plastic Mounting Profile Cover, White, 1.2 m (4.0 ft.): P/N 91611480

#### Related Items

Martin VC-Feeder™: P/N 90357040

Martin P3 PowerPort 1500™: P/N 90721040  
Martin P3-100™ System Controller: P/N 90721010  
Martin P3-200™ System Controller: P/N 90721020  
Martin P3-PC™ System Controller: P/N 90721030  
Martin M-PC V3™ Pro (up to 64 DMX universes) incl. Martin USB Duo™: P/N 90732010  
Martin RDM 5.5 Splitter™: P/N 90758150

Ordering Information

VC-Dot 4™ RGB, 200 mm (7.9 in.) pitch, 64 pcs., 2 m (6.6 ft.) lead-in: P/N 90357100  
VC-Dot 4™ WW, 200 mm (7.9 in.) pitch, 64 pcs., 2 m (6.6 ft.) lead-in: P/N 90357130  
VC-Dot 4™ MW, 200 mm (7.9 in.) pitch, 64 pcs., 2 m (6.6 ft.) lead-in: P/N 90357120  
VC-Dot 4™ CW, 200 mm (7.9 in.) pitch, 64 pcs., 2 m (6.6 ft.) lead-in: P/N 90357110  
*Strings with custom Dot pitch and lead-in length can be manufactured to special order:*

